

PK3065US3

2

2. (Original) A peptide according to claim 1, wherein from zero to all of the -C(O)NH- linkages of the peptide have been replaced by a linkage selected from the group consisting of a -CH₂OC(O)NR- linkage; a phosphonate linkage; a -CH₂S(O)₂NR- linkage; a -CH₂NR- linkage; a -C(O)NR⁶- linkage; and a -NHC(O)NH- linkage; and wherein R is hydrogen or lower alkyl and R⁶ is lower alkyl, further wherein the N-terminus of said peptide is selected from the group consisting of a -NRR¹ group; a -NRC(O)R group; a -NRC(O)OR group; a -NRS(O)₂R group; a -NHC(O)NHR group; a succinimide group; a benzyloxycarbonyl-NH- group; and a benzyloxycarbonyl-NH- group having from 1 to 3 substituents on the phenyl ring selected from the group consisting of lower alkyl, lower alkoxy, chloro, and bromo; and wherein R and R¹ are independently selected from the group consisting of hydrogen and lower alkyl,

and still further wherein the C-terminus of said peptide has the formula -C(O)R² where R² is selected from the group consisting of hydroxy, lower alkoxy, and -NR³R⁴ where R³ and R⁴ are independently selected from the group consisting of hydrogen and lower alkyl and where the nitrogen atom of the -NR³R⁴ group can optionally be the amine group of the N-terminus of the peptide so as to form a cyclic peptide,

and physiologically acceptable salts thereof.

3. (Original) A peptide according to claim 1 wherein said detectable label is selected from the group consisting of radioisotopes, enzymes and fluorescent labels.

4. (Original) A peptide according to claim 1, wherein said label is attached to said peptide using a spacer.

5 - 10. (Canceled)

PK3065US3

3

11. (Original) A peptide according to claim 1, wherein said peptide comprises a sequence of amino acids (SEQ ID NO:3):

$$X_6 G X_1 X_2 X_3 X_4 X_5 W X_7$$

where X_1 is L, M, P, Q, or V; X_2 is F, R, S, or T; X_3 is F, L, V, or W; X_4 is A, K, L, M, R, S, V, or T; X_5 is A, E, G, K, M, Q, R, S, or T; X_7 is C, I, K, L, M or V; and X_6 is any of the 20 genetically coded L-amino acids.

12. (Original) A peptide according to claim 11, wherein X_1 is P; X_2 is T; X_3 is L; X_4 is R; X_5 is E or Q; X_7 is I or L (SEQ ID NO:4).

13. (Original) A peptide according to claim 12, wherein said peptide comprises a sequence of amino acids (SEQ ID NO:5):

$$X_8 X_9 G X_1 X_2 X_3 X_4 X_5 W X_7$$

where X_8 is A, C, D, E, K, L, Q, R, S, T, or V; and X_9 is A, C, E, G, I, L, M, P, R, Q, S, T, or V.

14. (Original) A peptide according to claim 13, wherein X_8 is D, E, or K; and X_9 is A or I.

15. (Original) A peptide according to claim 14, wherein said amino acid sequence is selected from the group consisting of (SEQ ID NOs 6-13, respectively): GGCADGPTLREWISFCGG; GNADGPTLRQWLEGRRPKN; GGCADGPTLREWISFCGGK; TIKGPTLRQWLKSREHTS; SIEGPTLREWLTSRTPHS; LAIEGPTLRQWLHGNGRDT; CADGPTLREWISFC; and IEGPTLRQWLAARA.

PK3065US3

4

16. (Original) A compound having a detectable label covalently attached thereto, said compound selected from the group consisting of

C A D G P T L R E W I S F C ; (SEQ ID NO:12)

| _____ |

[Ac] - C A D G P T L R E W I S F C - [amide] ; (SEQ ID NO:12)

| _____ |

O = C A D G P T L R E W I S F C - NH₂; and (SEQ ID NO:12)

| _____ |
CH₂-----S

I E G P T L R Q W L A A R A (SEQ ID NO:17)

I E G P T L R Q W L A A R A (βala)-K [NH₂] (SEQ ID NO:18)

17. (Original) A compound according to claim 16 wherein said detectable label is selected from the group consisting of radioisotopes, enzymes and fluorescent labels.

18. (Original) A compound according to claim 16, wherein said label is attached to said peptide using a spacer.

19. (New) A compound comprising the sequence of amino acids:
I E G P T L R Q W L (SEQ ID NO:5).

20. (New) A compound that is a dimer of two sequences, each sequence comprising I E G P T L R Q W L (SEQ ID NO:5)

PK3065US3

5

21. (New) A compound according to claim 19, where said compound is covalently attached to a nonproteinaceous polymer.

22. (New) A compound according to claim 20, where each sequence is covalently attached to a nonproteinaceous polymer.

23. (New) A compound according to claim 19, where the nonproteinaceous polymer is selected from the group consisting of polyethylene glycol, polypropylene glycol, and polyoxyalkenes.

24. (New) A compound according to claim 20, where the nonproteinaceous polymer is selected from the group consisting of polyethylene glycol, polypropylene glycol, and polyoxyalkenes.

25. (New) The compound of claim 20, where the dimer is joined by K.

26. (New) The compound of claim 22, where the dimer is joined by K.

27. (New) A compound that is a dimer of two sequences, each sequence comprising IEGPTLRQWLAARA (SEQ ID NO:17).